

modifying the image to provide a modified image of the slice, responsive to additional X-ray attenuation data acquired along an additional scan path sector in a vicinity of the axial position of the slice, the sector having an angular extent substantially less than a predetermined reconstruction angle.

58. An imaging method according to claim 27 and including periodically modifying the image using the following method:

reconstructing an image of the slice using initial X-ray attenuation data acquired along an initial scan path sector; and

modifying the image to provide a modified image of the slice, responsive to additional X-ray attenuation data acquired along an additional scan path sector in a vicinity of the axial position of the slice, the sector having an angular extent substantially less than a predetermined reconstruction angle.--

#### REMARKS

The present application is a U.S. National application of PCT application PCT/IL98/00074 filed February 12, 1998. The present amendment is based on the claims attached to the IPER dated June 15, 1999. After amendment the application includes claims 1-28 and 55-58. Claims 7, 8, 10, 15-17, 22, 24 and 28 have been amended. Claims 29-54 have been canceled. Claims 55-58 have been added to more fully define the invention as originally disclosed. The claims have been amended to put them into better form for examination in the US.

The Examiner is respectfully requested to review and cite the art cited in the search report attached to WO 98/36690, the publication of PCT application PCT/IL98/00074. A filled-in Form 1449 is submitted herewith to facilitate this citation. The examiner has been supplied a copy of the art by WIPO.

An examination on the merits is respectfully requested.

Respectfully submitted,  
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